

FIG. 1

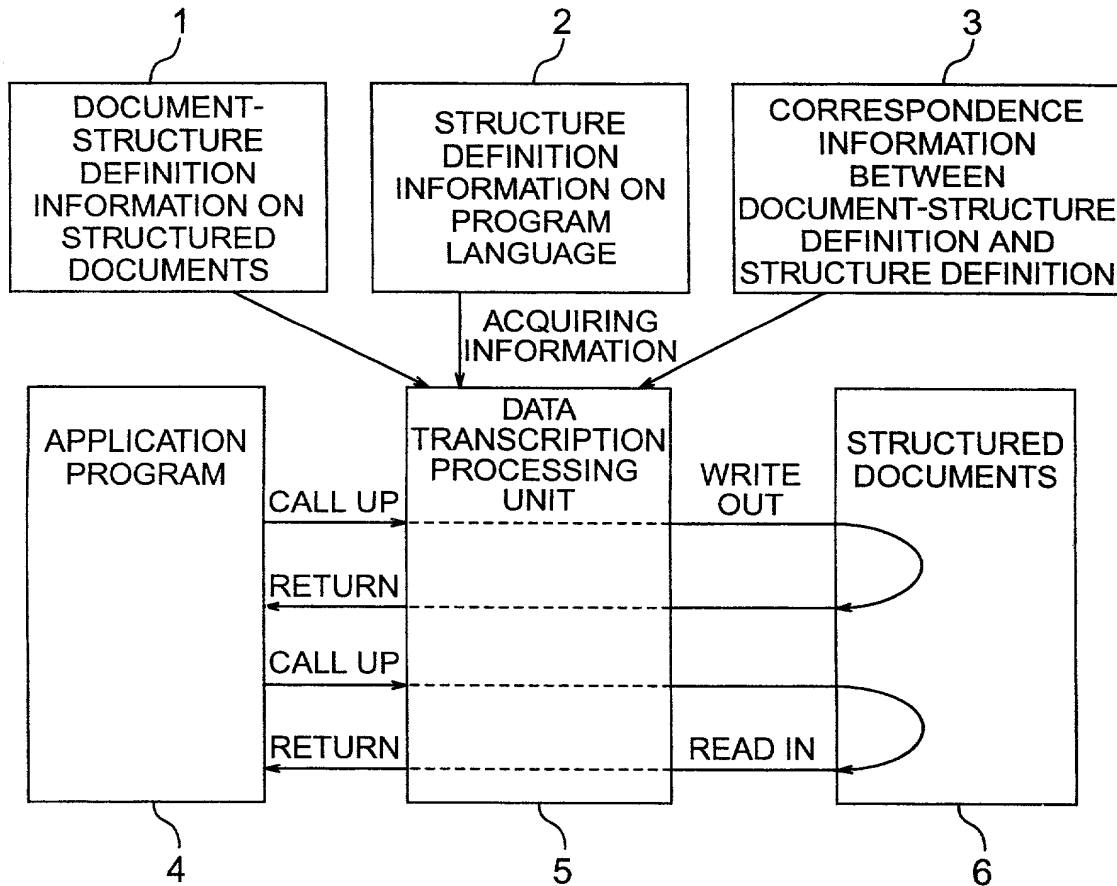


FIG. 2

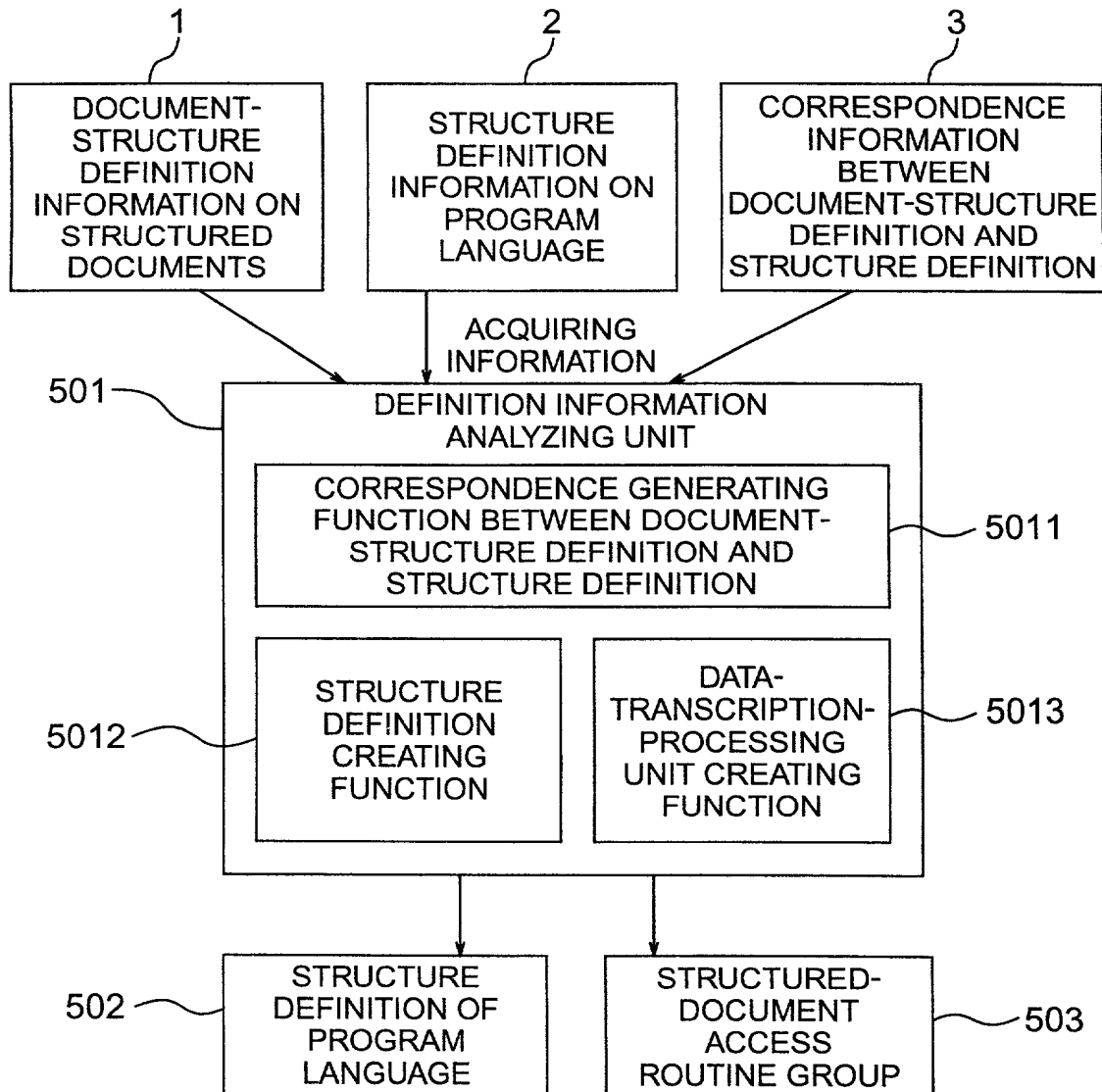


FIG. 3

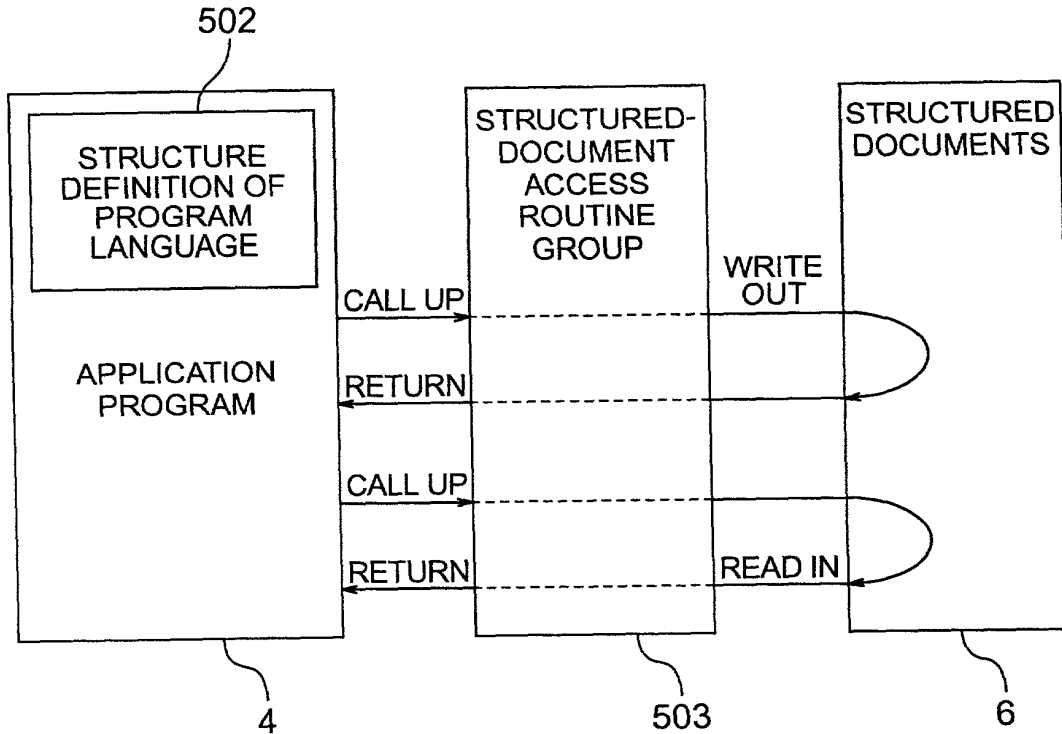


FIG. 4

```

<?xml version="1.0"?>
<!DOCTYPE order [
  <!ELEMENT order (address, item+)>
  <!ELEMENT address (#PCDATA)>
  <!ELEMENT item (itemname, price, quantity)>
  <!ELEMENT itemname (#PCDATA)>
  <!ELEMENT price (#PCDATA)>
  <!ELEMENT quantity (#PCDATA)>
]>
  
```

The diagram shows an XML document structure. The root element is **order** (labeled 71), which is a DTD declaration. It contains three child elements: **address** (labeled 72), **item** (labeled 73), and **itemname**. The **address** element is of type **#PCDATA**. The **item** element is of type **(itemname, price, quantity)**. The **itemname** element is of type **#PCDATA**. The **price** element is of type **#PCDATA**. The **quantity** element is of type **#PCDATA**.

FIG. 5

```

<?xml version="1.0"?>
<!DOCTYPE order [
  <!ELEMENT order (address, item+)>
  <!ELEMENT address (#PCDATA)>
  <!ELEMENT item (itemname, price, quantity)>
    <!ELEMENT itemname (#PCDATA)>
    <!ELEMENT price (#PCDATA)>
    <!ELEMENT quantity (#PCDATA)>
]>
<order>
  <address> WWW PREFECTURE XX CITY YY WARD ZZZZ </ADDRESS>
  <item>
    <item name> MY BOOK </item name>
    <price> 1000 </price>
    <quantity> 2 </quantity>
  </item>
  <item>
    <item name> YOUR BOOK </item name>
    <price> 1500 </price>
    <quantity> 3 </quantity>
  </item>
</order>

```

Diagram illustrating the XML structure for FIG. 5. The structure is defined by a DTD and an instance document.

DTD (Document Type Definition):

- 71**: `<!DOCTYPE order [`
- 72**: `<!ELEMENT order (address, item+)>`
- 73**: `<!ELEMENT address (#PCDATA)>`
- `<!ELEMENT item (itemname, price, quantity)>`
- `<!ELEMENT itemname (#PCDATA)>`
- `<!ELEMENT price (#PCDATA)>`
- `<!ELEMENT quantity (#PCDATA)>`
- `<?xml version="1.0"?>`
- `<order>`
- `</order>`

Instance Document:

- 710**: The root element `<order>`.
- 720**: The `<address>` element with content "WWW PREFECTURE XX CITY YY WARD ZZZZ".
- 731**: The first `<item>` element, containing:
 - `<item name>` with content "MY BOOK"
 - `<price>` with content "1000"
 - `<quantity>` with content "2"
- 732**: The second `<item>` element, containing:
 - `<item name>` with content "YOUR BOOK"
 - `<price>` with content "1500"
 - `<quantity>` with content "3"

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Title: System and Method for Mapping Structured Document...

Atty Docket No. 16869S-038200

Sheet 5 of 11

5/11

FIG. 6

5021

01 ORDER.
02 ADDRESS PIC X(20)
02 ITEM OCCURS 2.
03 ITEMNAME PIC X(15).
03 PRICE PIC 9(9) COMP.
03 QUANTITY PIC 9(9) COMP.

FIG. 7

5022

DATA ITEM NAME			VALUE
ORDER	ADDRESS		WWW PREFECTURE XX CITY YY WARD ZZZZ
	ITEM (1)	ITEMNAME	MY BOOK
		PRICE	1000
		QUANTITY	2
	ITEM (2)	ITEMNAME	YOUR BOOK
		PRICE	1500
		QUANTITY	3

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Title: System and Method for Mapping Structured Document...

Atty Docket No. 16869S-038200

Sheet 6 of 11

6/11

FIG. 8

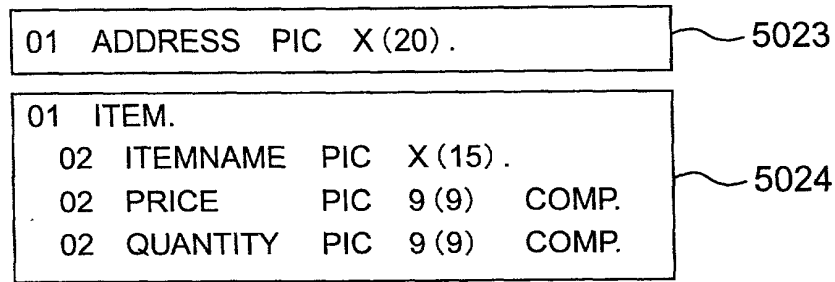
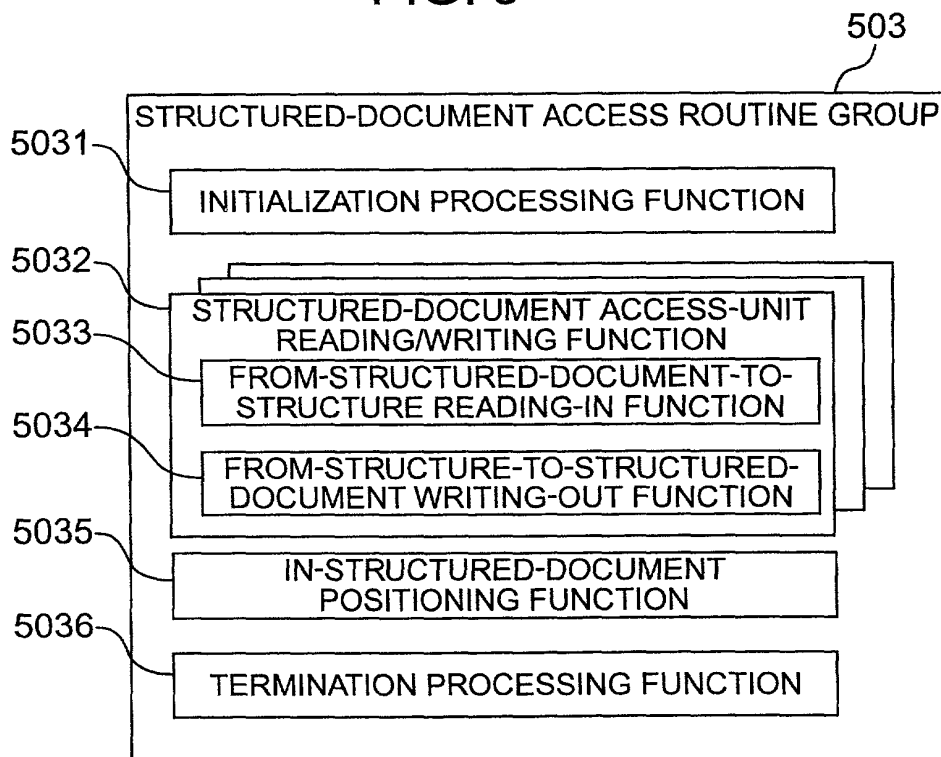


FIG. 9



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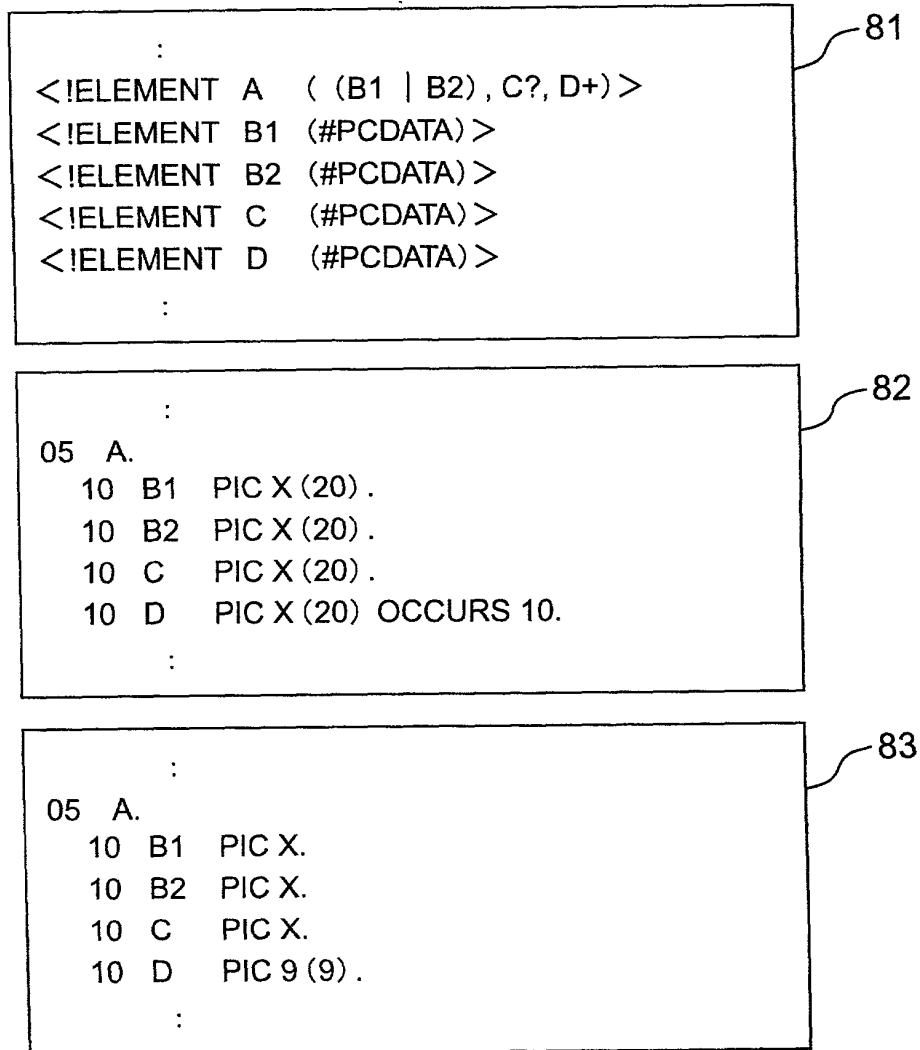
Title: System and Method for Mapping Structured Document...

Atty Docket No. 16869S-038200

Sheet 7 of 11

7/11

FIG. 10



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Title: System and Method for Mapping Structured Document...

Atty Docket No. 16869S-038200

Sheet 8 of 11

8/11

FIG. 11

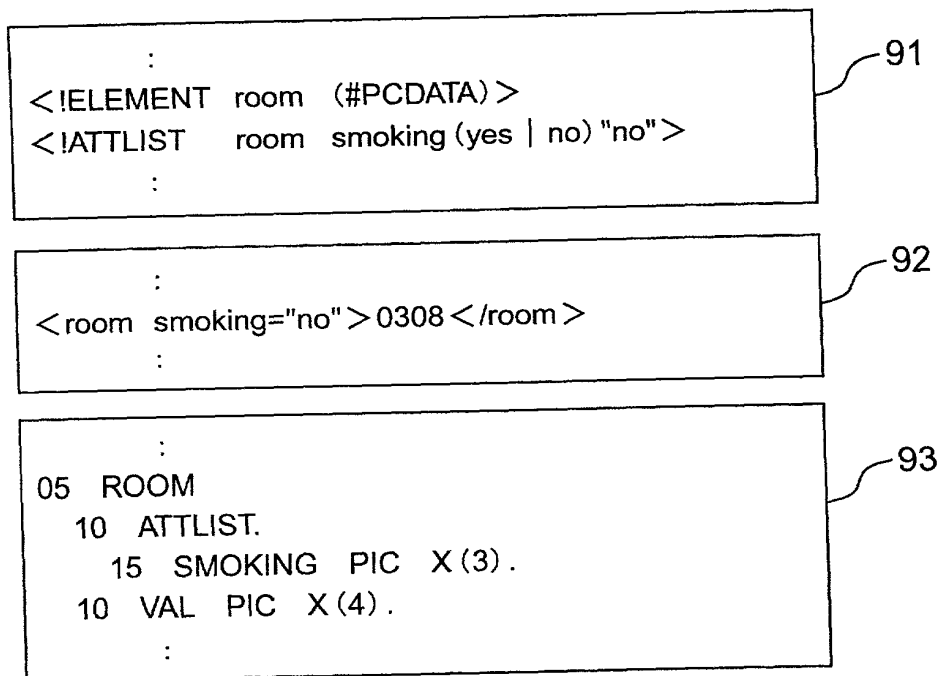


FIG. 12

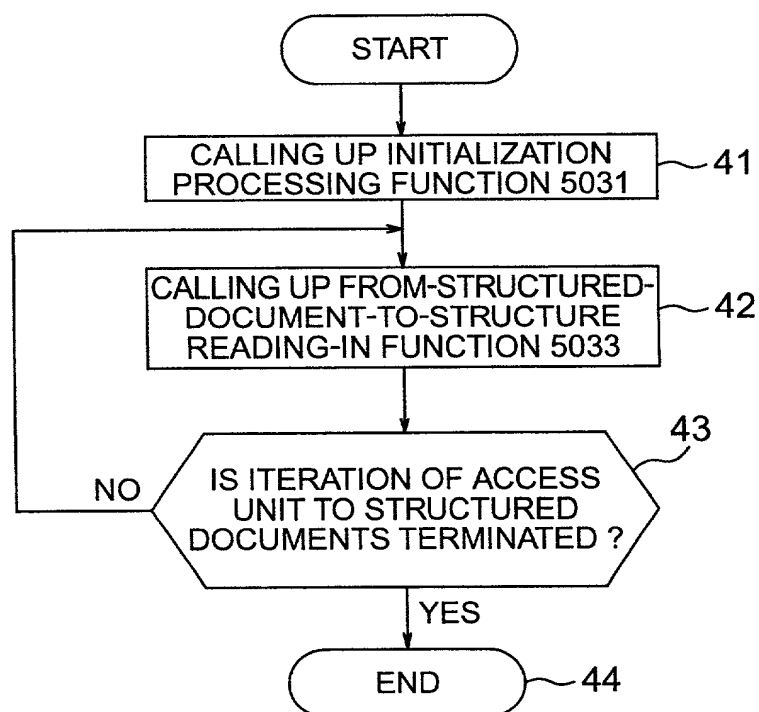


FIG. 13

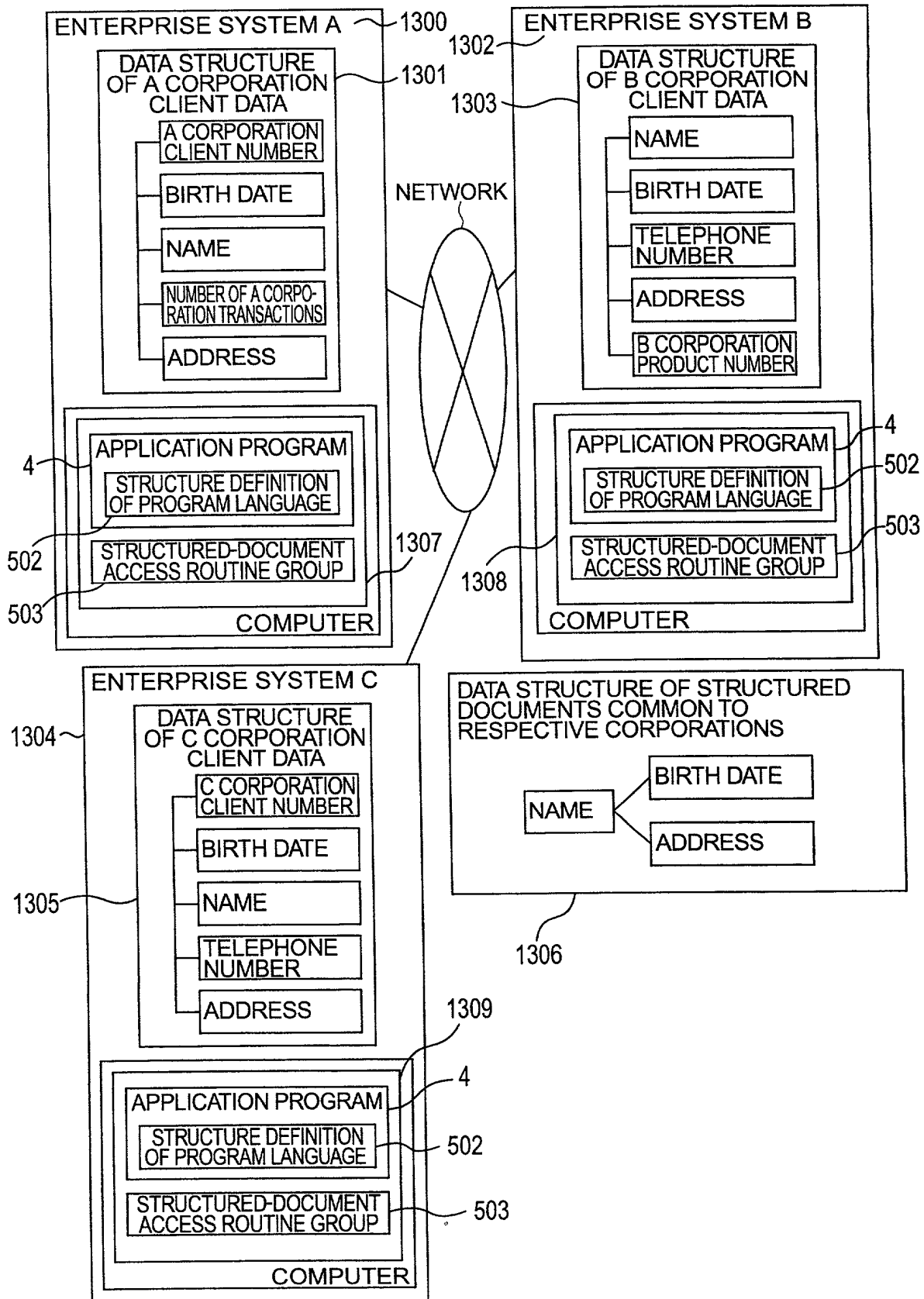


FIG. 14

